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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/585,915	11/12/2008	Ning Hu	01992.001US2	1645	
	7590 07/06/201 RRIS & PADYS PLLI		EXAMINER		
P.O BOX 11109	98	KISHORE, GOLLAMUDI S			
St. Paul, MN 55	0111-1098		ART UNIT PAPER NUMBER		
			1612		
			MAIL DATE	DELIVERY MODE	
			07/06/2011	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
066 - 4 - 4 - 5 - 5 - 5 - 5 - 5	10/585,915	HU ET AL.				
Office Action Summary	Examiner	Art Unit				
	GOLLAMUDI S. KISHORE	1612				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence ad	idress			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period was period for reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	J. ely filed the mailing date of this of 0 (35 U.S.C. § 133).	,			
Status						
1) Responsive to communication(s) filed on	_•					
,	action is non-final.					
3) Since this application is in condition for allowar	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.				
Disposition of Claims						
4) Claim(s) 1,5,9,12,14,15,17,18,22,26,37 and 42	is/are pending in the application					
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6) Claim(s) 1,5,9,12,14,15,17,18,22,26 and 37 is/	6) Claim(s) 1,5,9,12,14,15,17,18,22,26 and 37 is/are rejected.					
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9) ☐ The specification is objected to by the Examine	r.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Ex	11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119						
12) ☐ Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)	-(d) or (f).				
a) ☐ All b) ☐ Some * c) ☐ None of:	p	(-) - (-)				
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ite				
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Vail Data 11-2-05	5) Notice of Informal P	atent Application				
S. Patent and Trademark Office	7					

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DETAILED ACTION

Claims included in the prosecution are 1, 5, 9, 12, 14-15, 17-18, 22, 26, 37 and 42.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1, 5, 9, 12, 14, 17, 18, 22, 26, 37 are rejected under 35 U.S.C. 102(b) as being anticipated by Durr et al (Eur. Journal of Pharmaceutics and Biopharmaceutics, 1994) of record.

Durr discloses liposomes containing soya phosphatidylcholine and either DMPG or soya phosphatidic acid. The sizes of the liposomes are less than 100 nm (pages 149 and 150).

- Claims 1, 5, 9, 12, 15, 17, 18, 22, 26, 37 and 42 are rejected under 35U.S.C. 102(b) as being anticipated by EP 0 697 214 of record.
- EP discloses liposomes with a mean particle sizes of less than 100 and containing egg phosphatidylcholine and either phosphatidylglycerol or phosphatidic acid and cyclosporin. The phospholipid to cyclosporin ratio is 28:1 (Abstract, page 4, lines 9-14; Examples and claims).
- 3. Claims 1, 5, 9, 12, 17, 18, 22, 26, 37 and 42 are rejected under 35 U.S.C. 102(b) as being anticipated by WO 95/13053 of record

WO discloses liposomal preparations containing phosphatidylcholine, a negatively charged phospholipid and Taxane. (Abstract and Example 1). Although WO does not specifically teach the mean particle sizes of the liposomes to be less than 100, since it teaches passing the liposomes through 0.1 micron filters, particles of less than 100 is implicit.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claim 15 and 42 are rejected under 35 U.S.C. 103(a) as being unpatentable over Durr by itself or in view of EP both cited above.

The teachings of Durr have been discussed above. Durr does not teach the use of Egg PC. However, in the absence of showing the criticality, it is deemed obvious to one of ordinary skill in the art with a reasonable expectation of success to use Egg PC since EP teaches the routine practice of using Egg PC in liposomal formulations.

Although Durr does not teach claimed ratios of the phospholipid to the drug, since the amount of drug depends upon the condition to be treated, it is deemed obvious to one of ordinary skill in the art to manipulate the amounts especially in view of the teachings of the claimed ratios by EP.

The reference of Forssen (6,120,800) which teaches anionic liposomes of less than 100 nm is cited as interest.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to GOLLAMUDI S. KISHORE whose telephone number is (571)272-0598. The examiner can normally be reached on 6:30 AM- 4 PM, alternate Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Krass Frederick can be reached on (571) 272-0580. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Gollamudi S Kishore/ Primary Examiner, Art Unit 1612

GSK